

# ViewSonic®

*PJ853*



*Image Size 30" – 300"*  
*Super Bright SVGA LCD Projector*

**L I T E B I R D™**

**User Guide**

**Guide de l'utilisateur**

**Bedienungsanleitung**

**(International Spanish)**

**(Italian)**

**(Brazilian Portuguese)**

**(Swedish)**

**(Russian)**

**(Polish)**

**(Japanese)**

**(Traditional Chinese)**

**(Simplified Chinese)**

**(Korean)**

**(Arabic)**

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### Electronic Warranty Registration

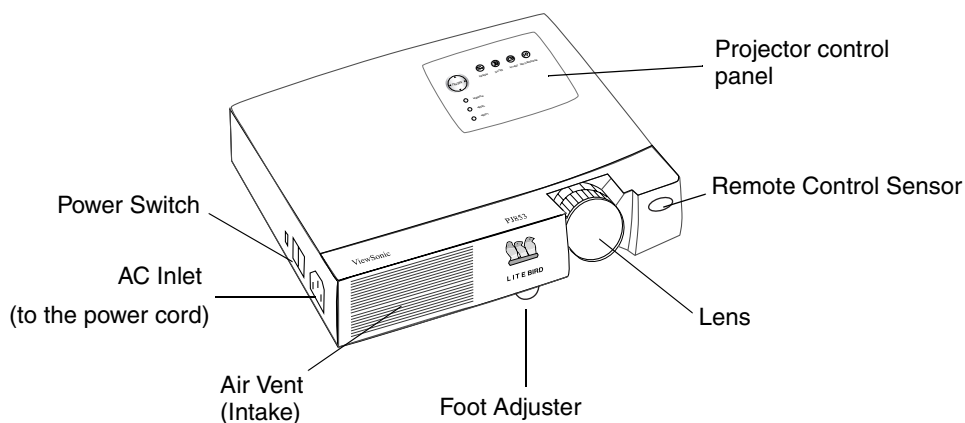
To meet your future needs, and to receive any additional product information as it becomes available, please register your projector's warranty on the Internet at:

<http://www.viewsonic.com>

## For Your Records

<b>Product Name:</b>	<b>ViewSonic PJ853</b>
<b>Model Number:</b>	<b>VPROJ21732</b>
<b>Document Number</b>	<b>PJ853_UG_59</b>
<b>Serial Number:</b>	_____
<b>Purchase Date:</b>	_____

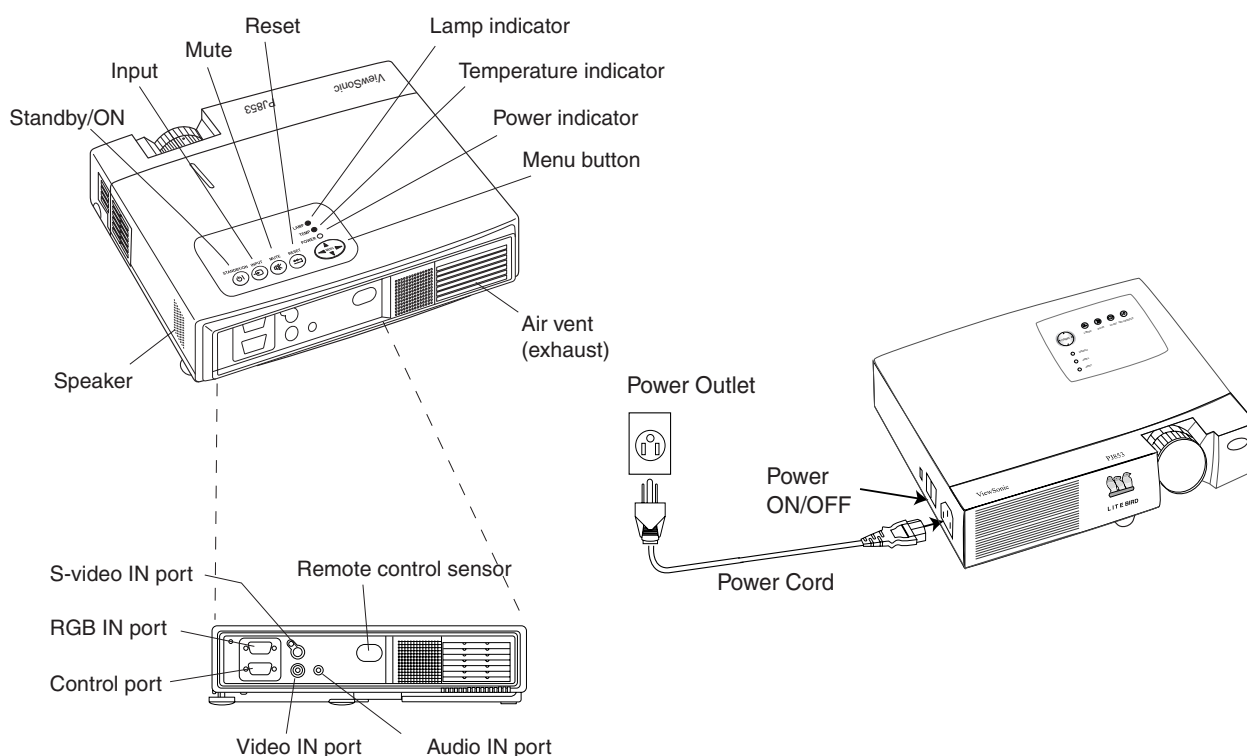




**Figure 2: ViewSonic PJ853 Projector**

## Connect Input and Output Devices

The figure below shows the ports and configurations for connecting external devices to the ViewSonic PJ853. See “Installation Steps” on page 4.



**Figure 3: Connections and Projector Control Buttons**

# Installation Steps

## 1 Verify Input/Output Connections

Make sure that you have properly connected all input cables before powering on the projector.

## 2 Remove the lens cap.

## 3 Power on the Projector.

- Turn on the **Main Power Switch** located on the side of the projector. The power indicator will remain a steady orange. See "Using The Projector" on page 6.

## 4 Press (and hold for 1 second) the Standby/ON button on the projector control pad.

- The power indicator flashes green during warm-up.
- The power indicator will remain a steady green after warm-up. The steady green light indicates that the ViewSonic PJ853 is ready to use.
- **To shut off the lamp** – Press the Standby/ON button (and hold for about 3 seconds). The unit will remain in cool-down mode with the fan on and the orange power LED **blinking** for 1 minute. The power switch on the side of the projector may be turned off after 1 minute, when the power light is a **steady** orange.

## 5 Position the Projector

Make sure that the projector is properly positioned on a level and stable surface. Determine the distance the projector will be from the screen then adjust the angle of the projection by positioning the foot adjusters. (See "Adjusting the Projector Angle on page" 5.)

## 6 Power on Input Devices

- Press either the Input button on the projector control pad or the Video/RGB button on the remote control to select the signal to be projected.
- The selected input signal source displays in the lower right section of the screen.

## 7 Adjust the Focus

Turn the lens ring to adjust the focus

**Caution:** The projector requires a warm-up period after the power is turned on, and the projector requires a cool-down period after the power is turned off.

**NOTE:** The power cannot be turned on for at least 1 minute after the unit has been powered off; this is a safety feature.

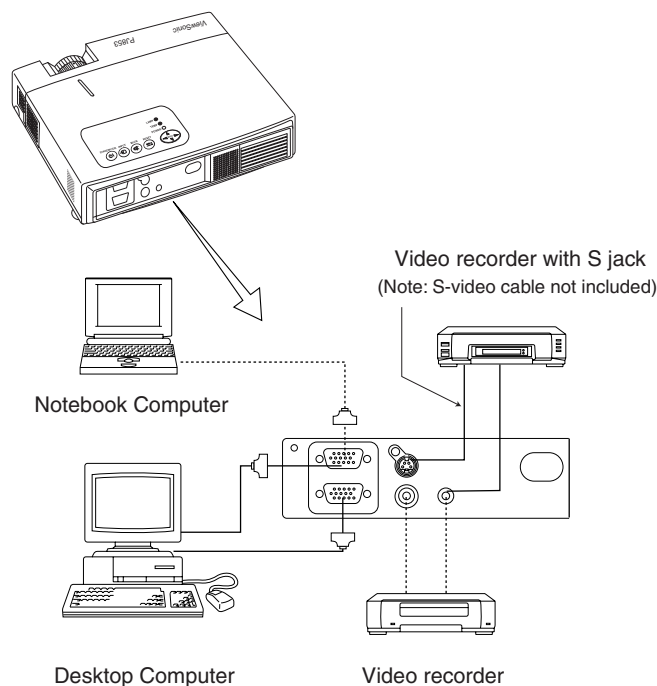


Figure 4: System Setup

# Adjusting the Projector Angle

Adjust the projection angle using the foot adjusters shown in the illustration. See also KEYSTONE under "Input Menu on page" 9.

- 1 Press the release button to lower the front foot, then tilt the projector up as shown in Figure 5 below.
  - The front foot locks into place when you release the button.
  - The front foot adjusts the vertical height of the projected image.
- 2 Rotate the rear foot adjuster to align the image.  
The rear foot adjusts the horizontal alignment of the projected image.

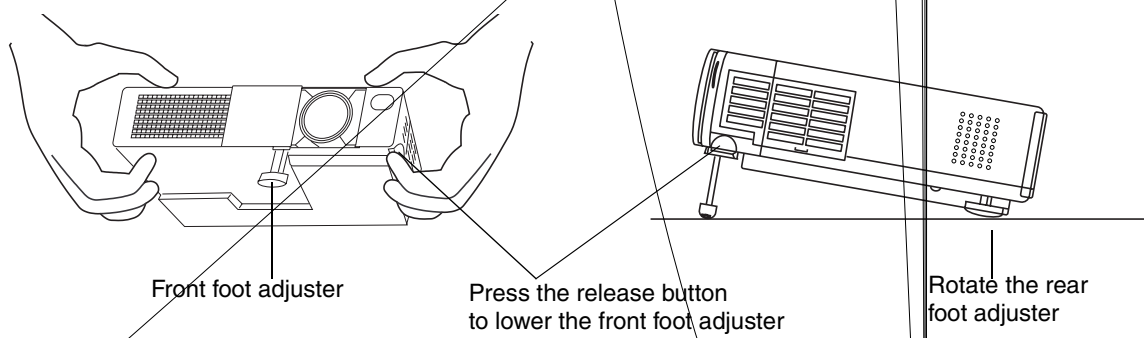


Figure 5: Level Adjustments

## Projector Placement Distance

Place the projector on a level table-top or other flat surface. Use the chart in Table 1 below to determine the optimal placement distance from the screen.

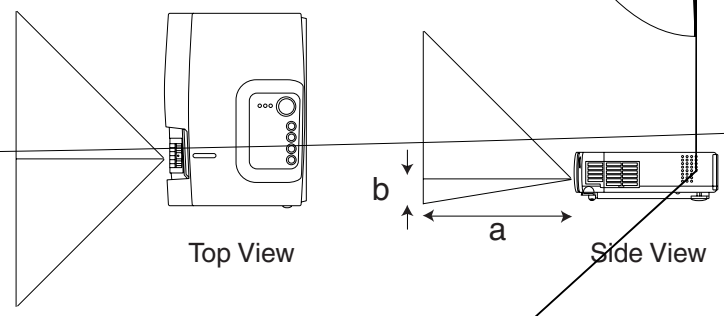


Figure 6: Recommended Projector Distances

Table 1: Distance in Inches

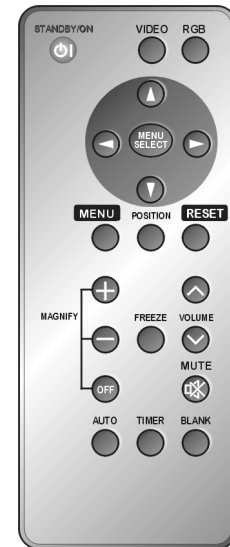
Screen Size (Inches)	a (Inches) Minimum and Maximum		b (Inches)
40	37	46	3
60	57	69	5
80	77	93	7
100	96	116	9
120	116	139	10
150	145	174	13
200	194	233	17

# Using The Projector

The control buttons display menus that are explained in detail in the section: “OnView Indicators” on page 8.



Projector control pad



Remote control

Figure 7: Projector and Remote Controls

## Control Buttons

Press a control button to display a menu then use the arrow buttons to adjust the control. The buttons on the projector control pad and on the remote control are explained below:



### Standby/on Button

Press the STANDBY/ON button to begin the warm-up period. The ON indicator blinks green during warm-up and stays green when the projector is ready to use.

**NOTE:** The projector cannot be restarted within 60 seconds after it is turned off because the projector enters a cool-down mode. This is a safety feature.



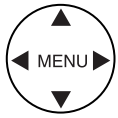
### Input Button (Video and RGB Buttons)

The INPUT button shown is on the projector only. Use the Video and RGB buttons on the remote control to select the input source.

Press the Input button on the projector to toggle between input sources, computer (RGB), Composite or S-Video. The remote control has both a Video and an RGB button.

- Press RGB to select a computer as the input source.
- Press Video to toggle between Composite and S-Video.





## Menu Button

The MENU button is a small button on the remote control and the large button on the projector control pad.

Press the Menu button and then use the up, down, right or left arrow indicators (▲▼) to display OnView® menus and adjust or select a menu item.



## Position Button

The POSITION button is on the remote control only.

Press this button to adjust the position of the screen image. After pressing the Position button use the up, down, right or left arrow indicators. (▲▼).

- Use the Position button when the input is from a computer (RGB).

**NOTE:** Position only works on a magnified image.



## Magnify Buttons

The MAGNIFY buttons are on the remote control only.



The Magnify buttons are used to zoom in on part of the projected image.

- Use the + button to enlarge the projected image.
- Use the - button to decrease the projected image.
- Use the OFF button to turn off magnification.



## Reset Button

The RESET button shown with the arrow and dot icon is on the projector only. The RESET button on the remote control has no marking but is labeled RESET.

Press the Reset button to restore the factory default settings.

- Use Reset to restore the factory default settings if you have made several adjustments to the projected image and are not satisfied with the result and want to start over.



## Volume Buttons

The VOLUME buttons are on the remote control only.

Use the Volume buttons to adjust the loudness of the audio signal.



- The up indicator increases the volume.
- The down indicator decreases the volume.



## Mute Button

Use the Mute button to temporarily turn off the audio.



## Blank Button

The BLANK button is on the remote control only.

Use the Blank button to display a blank screen showing only the background color.



## Freeze Button

The FREEZE button is on the remote control only.

Use the Freeze button to freeze (or hold) an image on screen.





**Bright** adjusts the brightness of the projected image.

**Contrast** adjusts the contrast of the projected image.

**Sharpness** (Video only) makes the edges of the image softer or sharper.

**Color** (Video only) increases or decreases the saturation of the color.

**Tint** (Video only) adjusts the hue of the projected image from red to green.

**Vertical Position** (RGB only) moves the projected image up or down.

**Horizontal Position** (RGB only) moves the projected image to the right or left.

**Horizontal Phase** (RGB only) eliminates visible horizontal lines on the projected image.

**Horizontal Size** (RGB only) widens or narrows the projected image.

**Color Balance R** darkens or lightens the Red color of the projected image.

**Color Balance B** darkens or lightens the Blue color of the projected image.

**Aspect Ratio** selects an aspect ratio. The aspect ratio is the ratio of width to height of the projected image.

## Input Menu

### INPUT Menu

The Input menu displays 3 input options.

- Select **RGB** if the input source is a computer.
- Select **Video** if the input source is a VCR or other tape device.
- Select **Auto** to let the system automatically detect the input source.

**RGB** displays the horizontal and vertical sync signal frequency of an RGB input source, such as a computer.

**VIDEO** automatically detects and selects the input signal, or you may select your country specific input standard from the list.

**AUTO** automatically adjusts the vertical and horizontal position, phase and size.

## Image Menu

### IMAGE Menu

The Image menu displays 4 options that are explained below:

**Keystone** corrects image distortion that may occur when the angle of the projection is increased. Keystone resizes the top or bottom of the projected image. See “Adjusting the Projector Angle” on page 5.

sets the background color of a blank screen. You may select a blank or a solid color. A blank screen will be projected when no input source is detected.

**Normal** for a table top projection.

**Invert** for rear projection.

**Invert** for a front projection ceiling mount.

**Invert** for a rear projection ceiling mount.

selects a start-up menu. You may select or deselect the ViewSonic menu to display automatically at start-up.

## as M

### Menu

This menu displays 6 options that are explained below:

increases or decreases the volume.

**Color** selects a background color for on screen menus (Orange, Yellow, Purple, Gray, Black).

provides a countdown clock that you can set, typically used to time a

countdown timer between 1 and 99 minutes. The time will display on the bottom portion of the screen when you press the Timer button on the remote

selects a menu-display language from a list.

causes the projector to automatically enter a standby, cool-down mode after a specified amount of time has elapsed without a signal.

**SYNC on C**  
G input device  
default value

# Other Information

## Specifications

<b>LCD</b>	Type Pixels Colors	Three 0.7" 800 x 600 polysilicon, active matrix TFT LCD 1,440,000 (800 dots x 600 lines x 3 colors) 16.7 million
<b>Lens</b>	Type Focal length Keystone correction	Manual zoom (1.2x), manual focus F2.0 ~ 2.3 (f = 17.7 - 21.2 mm) Fixed 6:1 upward shift, normal at 10° ~ 12° projection angle
<b>Display</b>	Image size Focus distance Aspect ratio Orientation	76.2 to 762 cm (30" to 300" inches) 0.7 to 9.0 m (2.3 to 29.5 feet) 4:3 Front/rear desktop, front/rear ceiling
<b>Lamp</b>	Lamp Lamp life Replacement lamp	UHB, 130 watts, ultra compact, replaceable 2000 hours Part number RLC-130-03A
<b>Audio</b>	Power	1 watt mono
<b>Input signal</b>	RGB analog Video S-video  Frequency Input bandwidth	75 ohms, 0.7vp-p H/V separated, composite (TTL) NTSC / NTSC 4.43, PAL, SECAM (1.0 Vp-p, 75 ohms) Luminance signal 0.7 Vp-p, 75 ohms termination Chrominance signal 0.29Vp-p (NTSC), 0.30Vp-p (PAL), 75 ohms termination f <sub>H</sub> : 15.75/15.63, 25-78 kHz f <sub>V</sub> :56-120Hz 110 Hz
<b>Compatibility</b>	PC Macintosh <sup>1</sup> Video	Compatible up to 1024 x 768 (compressed) Compatible up to 1024 x 768 (compressed) NTSC, NTSC 4.43, PAL(-BGHI), PAL-M, PAL-N, PAL60, SECAM
<b>Remote range</b>	Angle Distance	30 degrees cone angle 3 m (10 feet)
<b>Resolution</b>	Maximum Recommended	1024 x 768 @ 75Hz 800 x 600 @ 60Hz
<b>Input ports</b>	RGB Video S-video Audio Serial control	15-pin mini D-sub RCA (x1) Mini DIN 4-pin (x1) Stereo mini jack 15-pin mini D-sub
<b>Power</b>	Voltage Consumption	100-120/220-240 VAC 50/60 Hz (auto switch) 200 watts
<b>Operating conditions</b>	Temperature Humidity Altitude	0° to 35°C (32° to 95°F) 10% to 85% (no condensation) 0 to 2,100 m (0 to 7,000 feet)
<b>Storage conditions</b>	Temperature Humidity Altitude	-20° to 60°C (-4° to 140°F) 10% to 85% (no condensation) 0 to 2,100 m (0 to 7,000 feet)
		210 x 289 x 76 mm (8.3 x 11.4 x 3.0 inches)
<b>Regulations</b>	FCC class B, UL, C-UL, CE/TUV	

<sup>1</sup> May require a Macintosh adapter

## Timing Chart

The following table lists the maximum refresh rates for standard resolutions (timing presets). Not all video cards can operate at these rates. See your graphics card user guide to ensure compatibility.

**Table 2: Computer Signal Rates and Resolution**

Resolution	fH (kHz)	fV (Hz)	Rating	Signal mode
640 x 350	37.9	85.1	VESA	VGA-1
640 x 400	37.9	85.1	VESA	VGA-2
720 x 400	37.9	85.0	VESA	TEXT
640 x 480	31.5	59.9	VESA	VGA-3
640 x 480	35.0	66.7		Mac 13" mode
640 x 480	37.9	72.8	VESA	VGA-3 (72Hz)
640 x 480	37.5	75.0	VESA	VGA-3 (75 Hz)
640 x 480	43.3	85.0	VESA	VGA-3 (85 Hz)
800 x 600	35.2	56.3	VESA	SVGA (56 Hz)
800 x 600	37.9	60.3	VESA	SVGA (60 Hz)
800 x 600	48.1	72.2	VESA	SVGA (72 Hz)
800 x 600	46.9	75.0	VESA	SVGA (75 Hz)
800 x 600	53.7	85.1	VESA	SVGA (85 Hz)
832 x 624 (partial)	49.7	74.5		Mac 16" mode
1024 x 768 (compressed)	48.4	60.0	VESA	XGA (60 Hz)
1024 x 768 (compressed)	56.5	70.1	VESA	XGA (70 Hz)
1024 x 768 (compressed)	60.0	75.0	VESA	XGA (75 Hz)

# Troubleshooting

## No power

- Make sure power button (or switch) is ON.
- Make sure A/C power cord is securely connected to a power outlet.
- Plug another electrical device (like a radio) into the power outlet to verify that the outlet is supplying proper voltage.

## Power is on but projector is only displaying the logo

- Make sure the input source is connected.

## Projector image is too dark or too light

- Adjust the Contrast and Brightness settings.
- Press Reset from the OnView® display menu to reset factory defaults.

## Projector image is completely black (no light coming from the lamp)

- Make sure the lens cap has been removed.
- Make sure the power cord is connected and the unit is turned on. The LED should be steady green.
- Adjust Contrast and Brightness.
- The projector may have overheated. Let the unit cool down.
  - Make sure ventilation openings are clear.
  - Make sure air-filters are clean.
- Replace the lamp module.

## The image appears unstable or misplaced

- Press Auto.
- Make sure the source has compatible resolution.
- If the projector is connected to a source with a non-standard computer or video card, adjust the frequency of the computer signal.

## The image is out of focus

- Adjust the focus.
- Make sure that the projection distance is at least 5 feet.
- Make sure the lens is clean.
- Adjust the H Phase.

## Cooling fan is not working when the lamp is lit

**Caution:** Do not operate the projector in this condition.

- Have the projector repaired by an authorized dealer.

## The lamp shuts off

- A minor power surge may cause the lamp to shut off. Press the Power button twice to turn off the projector. Let the projector cool down, then restart.
- The projector may have overheated. Allow the projector to cool down, then restart.
- Recheck the power cord connection.
- Replace the lamp module.

## Projector does not respond to the remote control (or responds poorly)

- Make sure you are within 10 feet from the projector.
- Point the remote at the screen or at the front of the projector.
- Make sure the infrared sensors (on the front and on the back) of the projector are not blocked.
- Darken the room. The lighting may be affecting the remote control.
- Replace the battery.

## No sound

- Adjust the Volume and make sure the Mute button is toggled to OFF.
- Verify that the audio input is properly connected.
- Adjust the audio source device.

## No video

- Check the video input connections.
- Adjust the Brightness.

## A bright dot appears in the picture

- This is a characteristic of liquid crystal technology and is usually not a problem.

## Power Indicator Lights

If the Lamp or Temperature indicator is red or flashing red when the ViewSonic PJ853 is powered-on, there is a problem and you should not proceed. Power-off the the projector and let it cool down.

**Table 3: Power Indicator Lights**

Power Indicator	Lamp Indicator	Temperature Indicator	Condition
-----------------	----------------	-----------------------	-----------

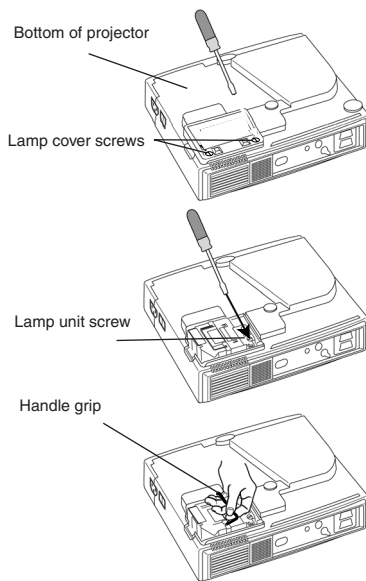
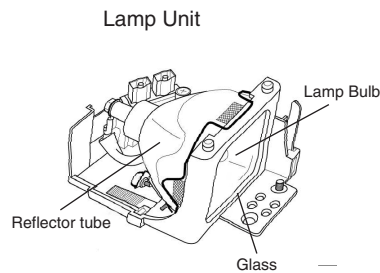
## Screen Messages

Most screen messages disappear after 3 minutes and reappear when the unit is powered-on.



# Maintenance

## Lamp Replacement



**Figure 8: Lamp Replacement**

### Lamp Unit

- To order a new lamp unit (part number RLC-130-03A) contact ViewSonic Customer Support: “Customer Support” on page 18.
- Estimated lamp life is 2000 hours.

**WARNING:** Make sure the power cord is disconnected.

**WARNING:** Make sure the unit is cool. Wait 45 minutes for the lamp to cool down.

### Lamp Replacement

- 1 Gently turn the projector over and place it on a towel or blanket. Expose the lamp cover on the bottom of projector.
- 2 Loosen the lamp cover screws as shown.
- 3 Gently remove the cover.
- 4 Loosen the lamp unit screw (after the cover is removed).
- 5 Gently pull the unit out of the lamp compartment using the flip-up handle grip.
- 6 Gently insert the new lamp.
- 7 Replace the lamp unit screw.
- 8 Replace the cover and secure with the lamp cover screw.

### Resetting the Lamp Timer

After replacing the lamp, the lamp indicator light will be red and the “Change the Lamp” message will be displayed.

Within 10 minutes after turning on the power do the following:

- 1 Press (and hold for a few seconds) the Timer button on the remote control or the Reset button on the projector control pad. The “Lamp hours” message will display on the bottom of the screen.
- 2 Press the Menu button on the remote control or the Reset button on the projector control pad while the lamp timer is displayed.
- 3 Use the direction arrows to select zero (0) and wait until the Lamp timer display clears.

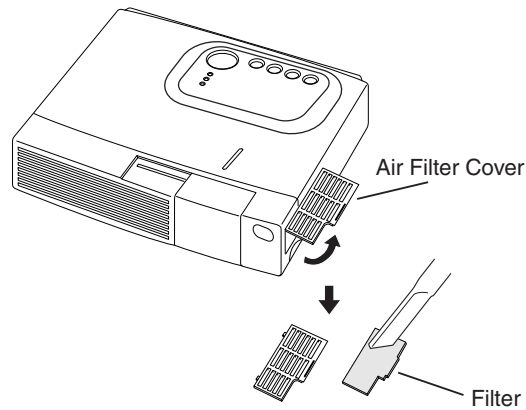
**Important:** The message functions will not operate properly if the lamp timer is reset without replacing the lamp or the lamp timer is not reset when the lamp is replaced.



## Air-Filter

Clean or replace the air-filter after about every 100 hours of use to prevent overheating which could damage the projector.

**WARNING:** Never operate the projector without the air-filter; doing so will damage the projector.



**Figure 10: Cleaning the air-filter**

- 1 Make sure the projector is cool and the power cord is unplugged before beginning.
- 2 Flip open the air-filter cover.
- 3 Gently remove the air filter.
- 4 Vacuum the air-filter.  
You may also hand-wash the filter in warm water. (See warning below.)
- 5 Replace the air-filter.
- 6 Replace the filter cover.

**WARNING:** Do not power-on the projector unless you are sure the filter is completely dry. Humidity or steam can damage the projector.

# Customer Support

For the most expedient answer to your question, do the following:

- 1 Check Troubleshooting (on the previous page).
- 2 For assistance contact your reseller.
- 3 For further assistance see the contact information listed below.

Ask your reseller to refer you to a service center if contact information for your country or region is not listed below:

**NOTE:** You will need to provide the serial number (on the back of the product).

Country/Region	T = Telephone F = FAX	Email
United States	T: (800) 688-6688 F: (909) 468-1202	vstech@viewsonic.com
Canada	T: (800) 688-6688 F: (909) 468-1202	vstech@viewsonic.com
United Kingdom	T: 0800 833 648 F: 0044 (0)1293 643910	-----
Europe, Middle East, Baltic countries, and North Africa	T: 0044 (0)1293 643900 F: 0044 (0)1293 643910	-----
Australia	(contact reseller)	-----
New Zealand	T: 64-3-366-1135 F: 64-3-366-7006	mbarlass@vistech.co.nz
Singapore/Southeast Asia	T: 65-273-4018 F: 65-273-1566	viewsonicspore@pacific.net.sg
Other Asia/Pacific countries and Indian Peninsula	T: 886-2-2248-4072 F: 886-2-2240-8238	vsi@viewsonic.com.tw
South Africa	T: 27-11-314-0002 F: 27-11-314-0002	atscom@mweb.co.za

# LIMITED WARRANTY

## VIEWSONIC Projector

### What the warranty covers:

**ViewSonic®** warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, **ViewSonic** will at its sole option repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

### How long the warranty is effective:

**ViewSonic** projectors are warranted for three (3) years for all parts excluding the lamp, three (3) years for all labor, and ninety (90) days for the lamp from the date of the first consumer purchase.

### Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

### What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
  - a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - b. Repair or attempted repair by anyone not authorized by **ViewSonic**.
  - c. Any damage of the product due to shipment.
  - d. Removal or installation of the product.
  - e. Causes external to the product, such as electric power fluctuations or failure.
  - f. Use of supplies or parts not meeting **ViewSonic's** specifications.
  - g. Normal wear and tear.
  - h. Any other cause which does not relate to a product defect.
3. Removal, installation, and set-up service charges.

### How to get service:

1. For information about receiving service under warranty, contact **ViewSonic Customer Support**. You will need to provide your product's serial number.
2. To obtain warranted service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
3. Take or ship the product freight prepaid in the original container to an authorized **ViewSonic** service center or **ViewSonic**.
4. For additional information or the name of the nearest **ViewSonic** service center, contact **ViewSonic**.

### Limitation of implied warranties:

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

### Exclusion of damages:

**VIEWSONIC'S** LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT.

**VIEWSONIC** SHALL NOT BE LIABLE FOR:

1. DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE PRODUCT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY, LOSS OF GOODWILL, INTERFERENCE WITH BUSINESS RELATIONSHIPS, OR OTHER COMMERCIAL LOSS, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.
3. ANY CLAIM AGAINST THE CUSTOMER BY ANY OTHER PARTY.

### Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

### Sales outside the U.S.A. and Canada:

For warranty information and service on **ViewSonic** products sold outside of the U.S.A. and Canada, contact **ViewSonic** or your local ViewSonic dealer.

Projector Warranty (V2.0)

Release Date: 10-15-1999

# Appendix

## Power Cord Safety Guidelines

**Caution:** Use a power cable that is properly grounded. Always use an AC power cord that meets your country's safety standard.

USA .....	UL	Switzerland .....	SEV
Canada .....	CSA	Britain .....	BASE/BS
Germany .....	VDE	Japan .....	Electric Appliance Control Act

### AC PLUG CORD PRECAUTIONS FOR THE UNITED KINGDOM

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET THEN THE PLUG SHOULD BE CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO AN APPROPRIATE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.

If in any doubt, please consult a qualified electrician.

**WARNING:** THIS APPLIANCE MUST BE EARTHED.

**IMPORTANT:** The wires in this mains lead are coloured in accordance with the following code:

Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

If the coloured wires of the mains lead of this appliance do not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the Earth symbol or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

### IMPORTANT NOTICE CONCERNING POWER CORD SELECTION

The power cord set for this unit has been enclosed and has been selected according to the country of destination and must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord set, or if the cord set is not enclosed.

The female receptacle of the cord set must meet CEE-22 requirements and will look like (Figure A1 below):

Figure A1

### For the United States and Canada

In the United States and Canada the male plug is a NEMA5-15 style (Figure A2), UL Listed, and CSA Labeled. For units which are mounted on a desk or table, type SVT or SJT cord sets may be used. For units which sit on the floor, only SJT type cord sets may be used. The cord set must be selected according to the current rating for your unit. Please consult the table below for the selection criteria for power cords used in the United States and Canada.

Cord Type	Size of Conductors in Cord	Maximum Current Rating of Unit
SJT	18 AWG 16 AWG 14 AWG	10 Amps 12 Amps 12 Amps
SVT	18 AWG 17 AWG	10 Amps 12 Amps

### For European Countries

In Europe you must use a cord set which is appropriate for the receptacles in your country. The cord set is HAR-Certified, and a special mark that will appear on the outer sheath, or on the insulation of one of the inner conductors.

If you have any questions concerning which proper power cord to use, please consult with the dealer from whom you have purchased the product.

## FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### FCC Warning

To assure continued FCC compliance, the user must use grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. If a BNC cable is going to be used, use only a shielded BNC(5) cable. Also, any unauthorized changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

### CE Conformity



The device complies with the requirements of the EEC directive 89/336/EEC as amended by 92/31/EEC and 93/68/EEC Art.5 with regard to "Electromagnetic compatibility," and 73/23/EEC as amended by 93/68/EEC Art.13 with regard to "Safety."

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